

WHAT IS CLAIMED IS:

1 1. An optical disc reproducing apparatus
2 comprising,
3 a housing,
4 a reading section which is disposed inside said
5 housing, and reads data recorded on an optical disc,
6 a storing section which stores the data read
7 by said reading section,
8 a reproducing section which reproduces the
9 data stored in said storing section,
10 a reference discal unit which is disposed
11 outside said housing and is rotated at a
12 predetermined reference rotational speed and in a
13 predetermined reference rotational direction,
14 an operation discal unit which is mounted on
15 said reference discal unit to rotate together with
16 said reference discal unit, and is capable of
17 rotating in a desired rotational direction at a
18 desired rotational speed according to a user's
19 manipulation,
20 a detection discal unit which is accommodated
21 in said housing, and is connected with said
22 operation discal unit to rotate in sync with the
23 rotation of said operation discal unit,
24 a first detecting section which is disposed

25 inside said housing, and detects a rotational speed
26 and rotational direction of said detection discal
27 unit,

28 a second detecting section which is disposed
29 outside said housing, and detects a rotational speed
30 and rotational direction of said reference discal
31 unit, and

32 a control section which determines the
33 rotational speed and rotational direction of said
34 detection discal unit based on each detected result
35 from said first detecting section and said second
36 detecting section, and controls said reading
37 section, said storing section and said reproducing
38 section, so that a data reproduction desired by the
39 user is performed.

1 2. The optical disc reproducing apparatus according
2 to claim 1, wherein,

3 said control section gives a control to read
4 the data stored in said storing section at a
5 predetermined reference reading speed and in a
6 predetermined reference reading sequence, when it
7 is determined that said detection discal unit is
8 rotating at said reference rotational speed and in
9 said reference rotational direction, and

10 said control section gives a control to read

11 the data stored in said storing section at the
12 reading speed and in the reading sequence according
13 to a detected result from said first detecting
14 section, when it is determined that said detection
15 discal unit is not rotating at said reference
16 rotational speed in said reference rotational
17 direction.

1 3. The optical disc reproducing apparatus according
2 to claim 1, wherein,
3 the reference discal unit has a cross-section
4 of concave shape, and with the concave shaped
5 portion of said reference discal unit, said second
6 detecting section is protected from outside.

1 4. An operating apparatus for optical disc
2 reproduction comprising,
3 a housing,
4 a discal unit which is disposed outside said
5 housing and is rotated at a predetermined rotational
6 speed and in a predetermined rotational direction,
7 an operation discal unit which is mounted on
8 said discal unit to rotate together with said discal
9 unit, and is capable of rotating in a desired
10 rotational direction at a desired rotational speed
11 according to a user's manipulation,

12 a detection discal unit which is accommodated
13 in said housing, and is connected with said
14 operation discal unit to rotate in sync with the
15 rotation of said operation discal unit,

16 a first detecting section which is disposed
17 outside said housing, and detects the rotational
18 speed and rotational direction of said discal unit,

19 a second detecting section which is disposed
20 inside said housing, and detects the rotational
21 speed and rotational direction of said detection
22 discal unit, and

23 a control section which controls a processing
24 of data recorded on an optical disc in an optical
25 disc reproducing apparatus being connected
26 externally, according to each detected result from
27 said first detecting section and said second
28 detecting section, so that a data reproduction
29 desired by a user is performed.